



TEST REPORT

No.: CTS191029014-C-D

DATE: Nov. 01, 2019

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APPLICANT:

DC-Light ApS
Handværkerbyen 10 DK-2670 Greve Denmark

DESCRIPTION OF SAMPLES:

Sample Name : Campus loft easy air
Model No. : U.01.1446, U.01.1442, U.01.1443, U.01.1444, U.01.1445, U.01.1447,
U.01.1316, U.01.1317,01.1318, U.01.1319, U.01.1320, U.01.1321,
U.01.1322, U.01.1323, U.01.1324, U.01.1325,01.1326, U.01.1327,
U.01.1328, U.01.1329, U.01.1330, U.01.1331, U.01.1332, U.01.1333,
U.01.1334, U.01.1335, U.01.1336, U.01.1337, U.01.1338, U.01.1339,
U.01.1340,01.1341, U.01.1342, U.01.1343, U.01.1344, U.01.1345,
U.01.1346, U.01.1347, U.01.1348, U.01.1349, U.01.1350, U.01.1351,
U.01.1358, U.01.1359, U.01.1360, U.01.1363,01.1366, U.01.1369,
U.01.1370, U.01.1371, U.01.1372, U.01.1375, U.01.1376, U.01.1379,
U.01.1380, U.01.1381, U.01.1382, U.01.1383, U.01.1384, U.01.1385,
U.01.1386,01.1361, U.01.XXXX, U.01.1451, U.01.1457, U.01.1452,
U.01.1458, U.01.1453, U.01.1459,01.1454, U.01.1460, U.01.1455,
U.01.1461, U.01.1456, U.01.1462, U.01.1463, U.01.1469, U.01.1464,
U.01.1470, U.01.1465, U.01.1471, U.01.1466, U.01.1472, U.01.1467,
U.01.1473, U.01.1468, U.01.1474, L244203021/A225731,
L244204021/A225732, L244303021/A225733,L244304021/A225734,
L244403021/A225735,L244404021/A225736, L245203021/A225737,
L245204021/A225738,L245303021/A225739,
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L246400/A225744, L244403025/A226717, U.09.1127, U.09.1128,
U.09.1129, U.09.1130, U.09.1187, U.09.1188, U.09.1303, U.09.1304,
U.09.1305, U.09.1306, U.09.1307, U.09.1308, U.09.1309, U.09.1310,
L243203011/A222063, L243203031/A222065, L243203021,
L243203051/A227049, M.01.1000, M.01.1001, M.01.1002,
M.01.1003, M.01.1004, M.01.1005, M.01.1006, E7502821,
E7502822, E7502823, E7502824, E7502825, E7502826, E7502827,
E7502828, E7504862, L243113011/A227680, U.09.XXXX,
E7015878,E7015485, E7015880, E7015487, E7015886, E7015489,
E7015888, E7015491, E7015495, E7015892, E7015498, E7016567,
E7016571, E7XXXXXX, U.03.1032, U.03.1033, U.03.1034,

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U.03.1035, U.03.1036, U.03.1037, U.03.1038, U.03.1039, U.03.1040, U.03.1041, U.03.1042, U.03.1043, U.03.1044, U.03.1045, U.03.1046, U.03.1047, U.03.1048, U.03.1049, U.03.1050, U.03.1051, U.03.1052, U.03.1053, U.03.1054, U.03.1055, U.03.1056, U.03.1057, U.03.1058, U.03.1059, U.03.1060, U.03.1061, U.03.1062, U.03.1063, U.03.1064, U.03.1065, U.03.1081, U.03.1082, U.03.1083, U.03.1084, U.03.1085, U.03.1086, U.03.1087, U.03.1088, U.03.1089, U.03.1090, U.03.1091, U.03.XXXX

Brand Name : DC-Light ApS
 Manufacturer Name : ZHONGSHAN MIN KWONG ELECTRICAL CO.,LTD
 Buyer Name : /
 Country of Origin : China
 Country of Destination : Oversea
 Sample Receiving Date : Oct. 22, 2019
 Testing Period : Oct. 22, 2019 to Oct. 31, 2019
 Test Requested : In accordance with the RoHS Directive 2011/65/EU Annex II and its amendment 2015/863/EU.
 Test Method : Please refer to next page(s)
 Test Results : Please refer to next page(s)

CONCLUSION:

Tested Samples	Test Requested	Conclusion
Tested Component of Submitted Sample	European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)	Pass
	The BBP/DBP/DEHP/DIBP content requirements of the European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its amendments 2015/863/EU.	Pass

Note: The tested part of the sample was specified by client.
 The test conclusion was given based on the results of tested part.

Remark: According to the declaration from client, the report is quoted from the report CTS191022023-C.

In the event of any discrepancy, the report CTS191022023-C shall prevail

Authorized by: CTS (Ningbo) Testing Service Technology Co., Ltd.

Nicky.Le

Lab Supervisor



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TEST RESULTS:

1) Lead, Cadmium, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs)

Based on the performed tests on submitted samples, the results of Lead, Cadmium, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

1. X-Ray Fluorescence Spectrometry method in reference to IEC 62321-3-1:2013.
2. Chemical test method

Test Item(s)	Sample preparation	Test Method	Test Instrument
Lead (Pb)	With reference to IEC 62321-2:2013	With reference to IEC 62321-5:2013	ICP-AES
Cadmium (Cd)		With reference to IEC 62321-5:2013	ICP-AES
Mercury (Hg)		With reference to IEC 62321-4:2013+A1:2017	ICP-AES
Chromium VI (Cr VI)		With reference to IEC 62321-7-1:2015 IEC 62321-7-2:2017	UV-Vis
PBBs		With reference to IEC 62321-6:2015	GC-MS
PBDEs			

Test results of all parts by EDXRF and chemical confirmation

No.	Sample Description	Results					Chemical Confirmation Result (Unit=mg/kg)
		Pb	Cd	Hg	Cr	Br	
1	White coating	P	P	P	P	P	/
2	Silvery metal base material	P	P	P	P	/	/
3	White EVA	P	P	P	P	P	/
4	Semi-transparent plastic cover	P	P	P	P	P	/
5	White rubber	P	P	P	P	P	/
6	Silvery metal tube	P	P	P	P	/	/

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No.	Sample Description	Results					Chemical Confirmation Result (Unit=mg/kg)	
		Pb	Cd	Hg	Cr	Br		
7	Silvery metal screw	P	P	P	P	/	/	
8	Silvery metal gear	P	P	P	P	/	/	
9	Silvery metal spacer	P	P	P	P	/	/	
10	Silvery metal separation blade	X	P	P	P	/	Pb=102	
11	Semi-transparent plastic	P	P	P	P	X	PBBs, PBDEs=N.D.	
12	White plastic wire seat	P	P	P	P	X	PBBs, PBDEs=N.D.	
13	Silvery metal piece	P	P	P	P	/	/	
14	Silvery metal wire clip	P	P	P	P	/	/	
15	Wire	Transparent plastic jacket	P	P	P	P	P	/
16		Black plastic cable	P	P	P	P	P	/
17		Red plastic cable	P	P	P	P	P	/
18		Brown plastic cable	P	P	P	P	P	/
19		Blue plastic cable	P	P	P	P	P	/
20		Yellow and green plastic cable	P	P	P	P	X	PBBs, PBDEs=N.D.
21		Silvery metal wire (rough)	P	P	P	P	/	/
22		Silvery metal wire (thin)	P	P	P	P	/	/

Note : P = Below Limit (Pass)
 F = Over Limit (Fail)
 X = Inconclusive
 N.D. = not detected (less than MDL)

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Remarks:

- (1) Results are obtained by EDXRF for primary screening, and further chemical testing is recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013.

Element	Polymer Materials	Metallic Materials	Electronic Materials
Pb	P ≤ 500 < X < 1300 ≤ F	P ≤ 500 < X < 1300 ≤ F	P ≤ 500 < X < 1300 ≤ F
Cd	P ≤ 50 < X < 130 ≤ F	P ≤ 50 < X < 130 ≤ F	X < 130 ≤ F
Hg	P ≤ 500 < X < 1300 ≤ F	P ≤ 500 < X < 1300 ≤ F	P ≤ 500 < X < 1300 ≤ F
Cr	P ≤ 700 < X	P ≤ 700 < X	P ≤ 500 < X
Br	P ≤ 250 < X	/	P ≤ 250 < X

- (2) Chemical Confirmation Result acceptable Limit and Method Detect Limit:

Test items	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (CrVI) by alkaline extraction	Chromium VI (CrVI) by boiling water extraction#	PBBs	PBDEs
Unit	mg/kg	mg/kg	mg/kg	mg/kg	μg/cm ²	mg/kg	mg/kg
Method Detection Limit	2	2	2	2	0.10	5	5
Acceptable Limit	1000	100	1000	1000	---	1000	1000

- Note :
- #=a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 μg/cm². The sample coating is considered to contain CrVI.
 - The sample is negative for CrVI if CrVI is N.D. (concentration less than 0.10 μg/cm²). The coating is considered a non-CrVI based coating.
 - The result between 0.10 μg/cm² and 0.13 μg/cm² is considered to be inconclusive unavoidable coating variations may influence the determination.
 - Cr(VI) results represent status of the sample at the time of testing.
 - The maximum permissible limit is quoted from the directive 2011/65/EU Annex II.

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2) Phthalates

Based on the performed tests on submitted samples, the results of phthalates comply with the limits as set by RoHS Directive 2011/65/EU Annex II and its amendment 2015/863/EU.

Test Method: Determination of phthalates by GC-MS based on IEC62321-8:2017.

No.	Sample Description	Result (%)				Limit (%)	MDL (%)
		DEHP	DBP	BBP	DIBP		
5	White rubber	N.D.	N.D.	N.D.	N.D.	0.1	0.005
15	Transparent plastic jacket of wire	N.D.	N.D.	N.D.	N.D.	0.1	0.005
16	Black plastic cable of wire	N.D.	N.D.	N.D.	N.D.	0.1	0.005
17	Red plastic cable of wire	N.D.	N.D.	N.D.	N.D.	0.1	0.005
18	Brown plastic cable of wire	N.D.	N.D.	N.D.	N.D.	0.1	0.005
19	Blue plastic cable of wire	N.D.	N.D.	N.D.	N.D.	0.1	0.005
20	Yellow and green plastic cable of wire	N.D.	N.D.	N.D.	N.D.	0.1	0.005
23	White coating / White EVA / Semi-transparent plastic cover (Mixed)	N.D.	N.D.	N.D.	N.D.	0.1	0.005
24	Semi-transparent plastic / White plastic wire seat (Mixed)	N.D.	N.D.	N.D.	N.D.	0.1	0.005

- Note :
1. N.D. = not detected (less than MDL)
 2. 1 mg/kg=1 ppm=0.0001%
 3. MDL= Method Detect Limit
 4. The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II and its amendment 2015/863/EU.
 5. The method detect limit for each Phthalates are:

Method Detect Limit		
Phthalates	DEHP (Di- (2-ethylhexyl)phthalate)	0.005%
	DBP (Dibutyl phthalate)	0.005%
	BBP (Benzyl butyl phthalate)	0.005%
	DIBP (Diisobutyl phthalate)	0.005%

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Combined Survey Report Contents

Test report	Report No	Issue date
	SGS (8819)114-0084	2019.04.30

Conclusion: Based on the reports submitted by applicant, CTS quote the test data from the original reports as following

Survey part

Part name No.1	:	NY LON66 BLACK
Model	:	L813HX, L813HX-B, L815HX, L814HX, L814HX-B, L816HX, L816HX-B, L822, L822P, L823, 2501WX, 2506HX, 2509HX, 2001H, 2001WX, 2002HX, 4255HX, 4500HX, 6351HX, 1580HX, L824, 2542WX, L807, L808, L809, L810, L809A, L810A, L834, L822-4, L822-5, L835, L850, L860, PS-2A, PS-2B, 250D2, 250D6, 250D7, 250MP, 250FS, 250FV, HV4, LV SS24, LV SR24, LV SSR24, 01MP, 01FP
Vendor	:	DONGGUAN FENGJIE ELECTRONICS MANUFACTURE CO., LTD.
Report No	:	SGS (8819)114-0084

Test Data Summary

Item	Pb	Cd	Hg	Cr ⁶⁺	PBBs	PBDEs
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Limit	1000	100	1000	1000	1000	1000
Part No.1	Black plastic body	N.D.	N.D.	N.D.	N.D.	N.D.

Item	DBP	BBP	DEHP	DIBP
Unit	mg/kg	mg/kg	mg/kg	mg/kg
Limit	1000	1000	1000	1000
Part No.1	Black plastic body	N.D.	N.D.	N.D.

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Note : 1. N.D.=Not detected (<MDL)
2. N.A.=not applicable
3. 1mg/kg=1ppm=0.0001%

Disclaim : 1.The method detect limit of other labs may be different from that of CTS.
2. CTS has combined the submitted test reports only for any substances in the third party test report submitted by the applicant. The applicant and/or manufacturer of the submitted products are solely and fully responsible for conformity and determination of compliance of all manufactured products to all applicable standards, specifications, requirements, laws or regulations CTS is not responsible for and gives no any judgement to the third party data.

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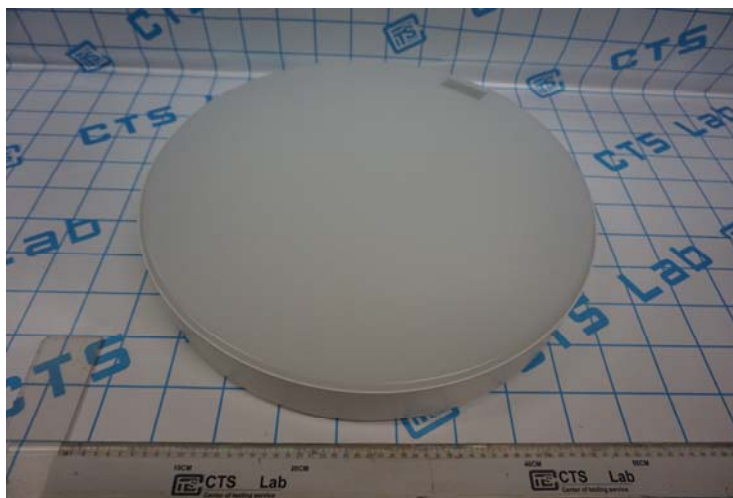
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SAMPLE REFERENCE PHOTO:



U.01.1446

End of Report

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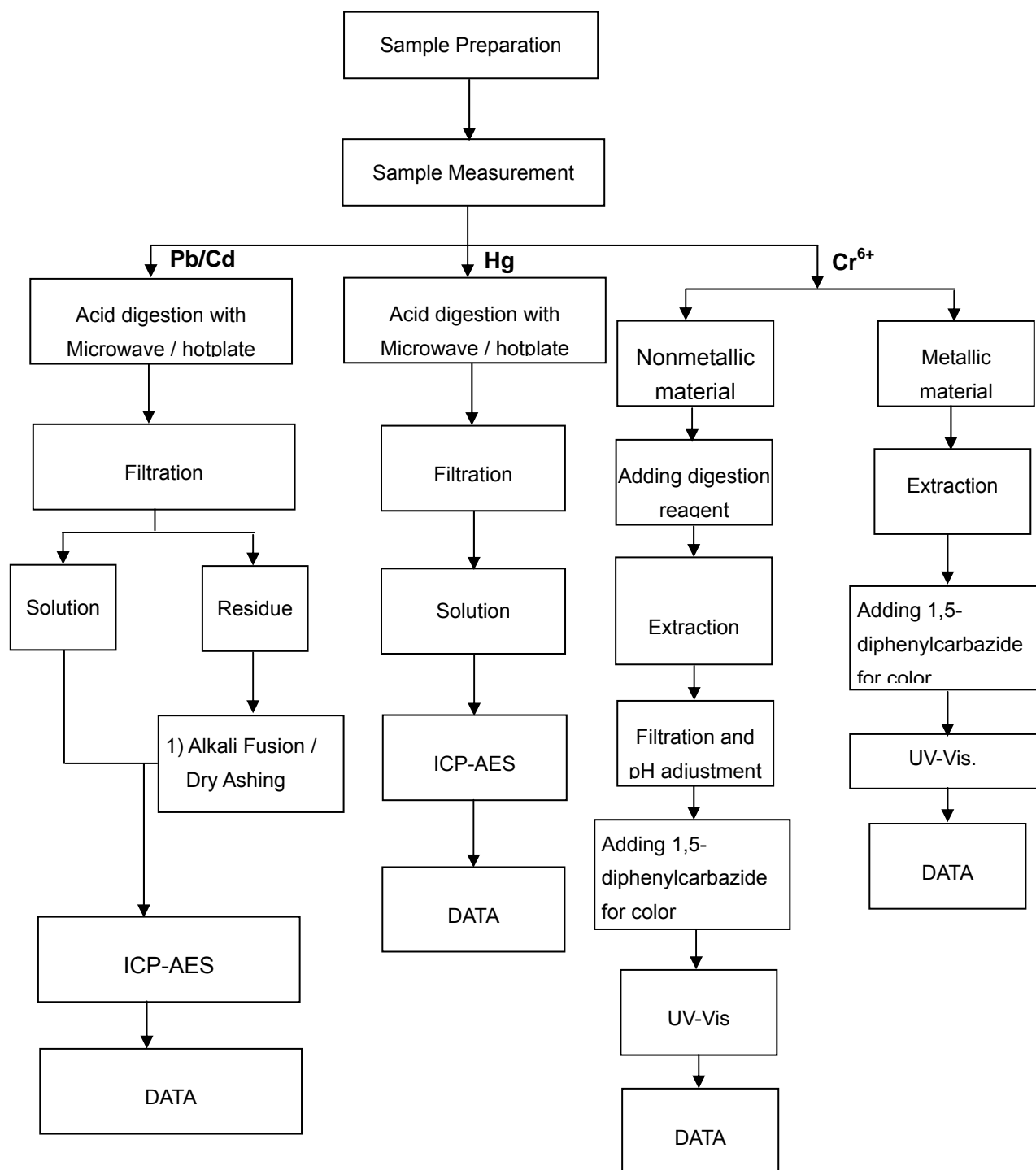
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Chemical Test Method Flow Chart



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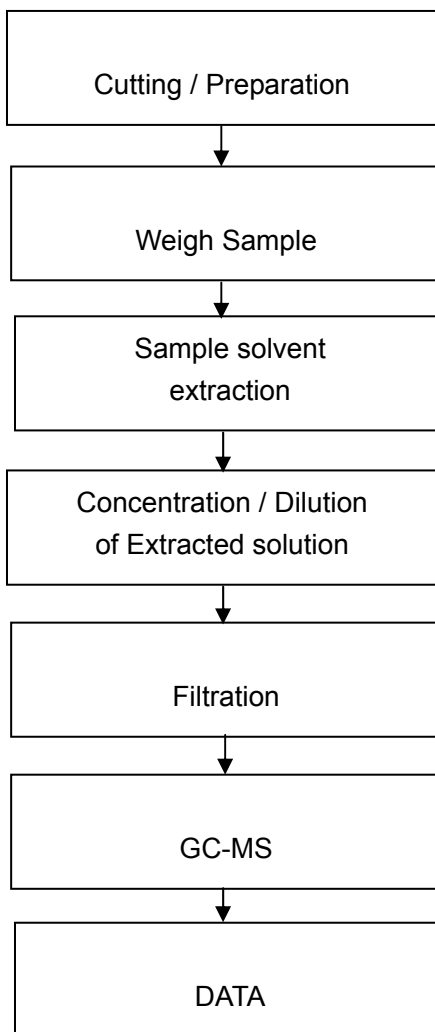
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PBBs / PBDEs



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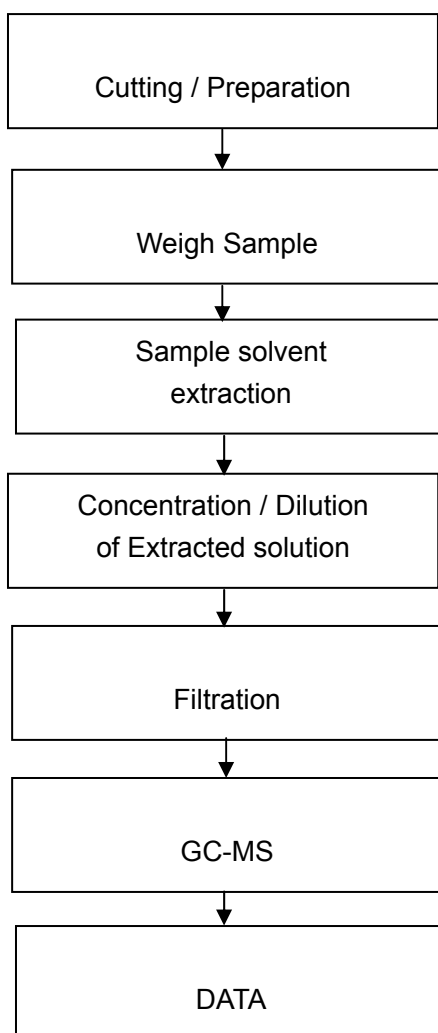
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Phthalates Testing Flow Chart



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